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IS 7506 (1987): Nickel Powder [MTD 25: Powder Metallurgical Materials and Products]

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IS : 7506 - 1987

Indian Standard

(Reaffirmed 2002)

SPECIFICATION FOR NICKEL POWDER

(First Revision)

1. Scope — This standard specifies the requirements of nickel powder used for the manufacture of heavy alloys and hard metals.

2. Supply of Material — General requirements relating to the supply of nickel powder shall be as laid down in IS : 1387-1967 'General requirements for the supply of metallurgical materials (*first revision*)'.

3. Chemical Composition — The chemical composition of the nickel powder shall be as given in Table 1.

TABLE 1 CHEMICAL COMPOSITION OF NICKEL POWDER

Composition limits are in PERCENT MAXIMUM, unless shown otherwise

Constituent	Percent
Ni	99, *Min*
Fe	0·05
Zn	0·03
Co	0·1
Cu	0·03
S	0·005
Si	0·005
(Na+K)	0·01
Ca	0·005
C	0·1
Hydrogen loss	0·5

3.1 The methods of chemical analysis shall be as agreed to between the purchaser and the manufacturer.

3.2 The hydrogen loss shall be determined in accordance with IS : 5644-1985 'Method for determination of hydrogen loss of metallic powders (*second revision*)'.

4. Average Particle Size — The average particle size shall be determined in accordance with IS : 7512-1974 'Method for the determination of average particle size of metal powders by Fisher subsieve sizer', and shall be within 2 to 7 μm. For specific application, other sizes may be agreed to between the manufacturer and the user.

5. Sampling — The sampling of powder for conducting chemical analysis and particle size determination shall be in accordance with IS : 6492-1972 'Methods for sampling of powders for powder metallurgical purposes'.

6. Packing — The powder shall be supplied packed in suitable containers in quantities mutually agreed to between the purchaser and the manufacturer.

7. Marking — Each container of nickel powder shall be suitably marked with the following information:

a) Nickel powder,

b) Manufacturer's name,

c) Batch number and date of manufacture of powder, and

d) Net mass of powder in the container.

7.1 *Standard Marking* — The powder may also be marked with the Standard Mark. Details available with the Bureau of Indian Standards.

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Powder Metallurgical Materials and Products Sectional Committee, SMDC 30 [Ref : Doc : SMDC 30 (3094)]

EXPLANATORY NOTE

This standard was first published in 1974. While reviewing this standard in light of the experience gained by the indigenous industry, the Sectional Committee decided to revise the standard. In this revision, the requirements for chemical composition has been modified.

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